State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
FRANKLIN COUNTY

Street Address:
122 S. Front Street
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08572

DATE: 10/29/2002

Groveport Composting Facility
Rob McCartney
2850 Rohr Rd
Groveport, OH 43125

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **CDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 10/29/2002**
Terms and Conditions	**Effective Date: 10/29/2002**

FINAL PERMIT TO INSTALL 01-08572

Application Number:	01-08572
APS Premise Number:	0125042428
Permit Fee:	**$0**
Name of Facility:	Groveport Composting Facility
Person to Contact:	Rob McCartney
Address:	2850 Rohr Rd Groveport, OH 43125

Location of proposed air contaminant source(s) [emissions unit(s)]:
2850 Rohr Rd
Groveport, **Ohio**

Description of proposed emissions unit(s):
Wood yardwaste screener.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
PE	10.1
NOX	8.5
CO	1.2
SO2	0.9
OC	0.5

Emissions Unit ID: **F007**

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements
F007 - CBI Compost Screener (4 tons/hr)	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-11 (B)(5)(b)
	OAC rule 3745-17-07 (A)(1)
	OAC rule 3745-17-07(B)
	OAC rule 3745-17-08
with an 190 hp diesel engine (1 mmBtu/hr)	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-35-07(B) (Synthetic minor to avoid Title V for NOX emissions)

Applicable Emissions Limitations/Control Measures	
Particulate emissions (PE) shall not exceed 0.36 lb/hr and 0.72 tonyr.	and 3745-31-05(D).
Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See sections A.2.b through A.2.d.	PE from exhaust shall not exceed 0.31 lb per mmBtu of actual heat input.
Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average.	Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
See section A.2.f	NOx emissions shall not exceed 4.4 tons/rolling, 12-month period.
See section A.2.f	CO emissions shall not exceed 0.3 ton/rolling, 12-month period.
NOx emissions shall not exceed 29 lbs/hr.	SO2 emissions shall not exceed 0.8 ton/rolling, 12-month period.
CO emissions shall not exceed 0.2. lb/hr.	OC emissions shall not exceed 0.2 ton/rolling, 12-month period.
SO2 emissions shall not exceed 0.4 lb/hr.	PE shall not exceed 0.06 ton/rolling, 12-month period.
OC emissions shall not exceed 0.1 lb/hr.	
PE shall not exceed 0.04 lb/hr.	
See section A.2.e, B.1, and B.2 below.	
Compliance with this rule also includes compliance with OAC rules 3745-17-11(B)(5)(b), 3745-17-07(A), 3745-18-06(G),	

2. Additional Terms and Conditions

2.a The material handling operation that is covered by this permit and subject to the above-mentioned requirements are listed below:

CBI Star Screener

2.b The permittee shall employ best available control measures for the above-identified material handling operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure to ensure compliance:

material handling operation	control measure
CBI Star Screener	moisture applied or inherent

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measure is unnecessary.

2.d Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

2.e The hourly allowables for NOx, CO, OC and PE reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop additional monitoring, record keeping and/or reporting requirements to ensure compliance with these limits.

2.f The requirements of these rules apply to particulate emissions from fugitive source in a RACM area; however, the requirements of OAC rule 3745-31-05(A)(3) are equal to or more stringent. Therefore, the requirements of these rules shall be satisfied.

B. Operational Restrictions

1. The maximum annual operating hours shall not exceed ***3***,000 hours per rolling, twelve month period.

   After the first 12 calender months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The engines shall be operated with diesel fuel with a sulfur content less than 0.5% by weight.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections to determine if visible particulate emissions are being emitted from the operations listed below in accordance with the following minimum frequencies:

operation	minimum inspection frequency
CBI Star Screener	Daily, when operating

   The above-mentioned inspections shall be performed during representative, normal operating conditions.

2. The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the "no visible emissions" requirement..

3. The permittee shall note the following in an operations log for each operation (soil grinder) at the minimum inspection frequency specified above whenever the emissions unit is in operation:

   a. the date and time of each observation;

   b. the presence or absence of any visible emissions;

   c. whether it was determined by the permittee that it was necessary to implement the control measures;

   d. the dates and times the control measures were implemented; and

e. the name of the person reporting each observation.

4. The permittee shall maintain a record of the sulfur content of each shipment of diesel fuel received for burning in this emissions unit.

5. The permittee shall maintain monthly records of the following information:

a. the operating hours for each month; and

b. the rolling, 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours during each calendar month.

6. The operations log shall be maintained on site.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:

a. each day when visible emissions were observed, and at which location;

b. each day during which an inspection was not performed by the required frequency; and

c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.

4. The permittee shall submit a deviation report for each day when a fuel other than 0.5% sulfur diesel fuel was burned in this emissions unit. This report shall be submitted within 30 days after the deviation occurred.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:

   a. Emissions Limitations-
   PE shall not exceed 0.48 lb/hr and 0.72 ton/yr.

   Applicable Compliance Method-
   Compliance shall be based on the RACM emission factor of 0.024 lb/ton of log debarked (Table 2.17-1), 60,000 tons compost handled, and 4,000 hr operation per year: 60,000 tons/yr compost handling * 0.024 lb/ton = 1,440 lbs PM/yr * 1 ton /2,000 lbs = 0.72 ton * 2,000 lbs/1 ton * 1yr/3,000 hr = 048 lb PM/hr

   b. Emission Limitation-
   Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average.

   Applicable Compliance Method-
   If required, compliance shall be determined through visible emission observations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods"in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996.

   c. Emission Limitation-
   Combustion emissions shall not exceed the following: NOx emission shall not exceed 2.9 lbs/hr per hour and 4.4 tons/yr; CO emissions shall not exceed 0.2 lb/hr and 0.3 ton/yr; SO2 emissions shall not exceed 0.4 lb/hr and 0.6 ton/yr; OC emissions shall not exceed 0.1 lb/hr and 0.2 ton/yr and PE shall not exceed 0.04 lb/hr and 0.06 ton/yr.
   Applicable Compliance Method-
   Compliance with the emission limitations identified above for the diesel engines shall be determined by using the emission factors from John Deere PowerTech Engine Emission Data (Tier 1) 6068TF250 172 bhp@1600 rpm and the rated capacity of the diesel engine (190 hp). The hourly emission rates are multiplied by 3,000 hours and converted to tons to obtain the annual emissions.

   <u>AP-42 Table 3.3-1 emission factors for combustion emissions from diesel engines</u>
   0.0002 lb PE/hp-hr * 190 hp = 0.04 lb PE/hr * 3,000 hr/yr * 1 ton/2000 lb = 0.06 ton PE/yr
   0.015 lb NOx/hp-hr * 190 hp = 2.9 lb NOx/hr * 3,000 hr/yr * 1 ton/2000 lb = 4.4 tons

NOx/yr
0.001 lb CO/hp-hr * 190 hp = 0.2 lb CO/hr * 3,000 hr/yr * 1 ton/2000 lb = 0.28 ton CO/yr
0.00205 lb SO2/hp-hr * 190 hp = 0.4 lb SO2/hr * 3,000 hr/yr * 1 ton/2000 lb = 0.6 ton SO2/yr
0.0006 lb OC/hp-hr * 190 hp = 0.1 lb OC/hr *3,000 hr/yr * 1 ton/2000 lb = 0.2 ton OC/yr

d. Emission Limitation-
Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation-
PE emissions from a small bore diesel engine exhaust stack shall not exceed 0.310 lb per mmBtu of actual heat input with diesel engine rated at 1 mmBtu/hr.

Applicable Compliance Method-
Compliance with the emissions limitation for the diesel engine identified above shall be determined by using the emission factor for particulate from John Deere PowerTech Engine Emission Data (Tier 1) 6068TF250 172 bhp@1600 rpm ." This emission factor is 0.31 lb particulate/mmBtu (fuel input) for diesel fuel. (Note: this emission factor is equivalent to the emission factor of 0.00022 lb PM/hp-hr.)

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

   a. the portable emissions unit is equipped with the best available technology for such portable emissions unit;

   b. the portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO) or registration;

   c. the applicant has provided proper notice of intent to relocate the portable emissions unit to

the CDO having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

d. in the CDO judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

a. the portable emissions unit permittee possesses an PTI, PTO or registration;

b. the portable emissions unit is equipped with best available technology;

c. the portable emission unit owner has identified the proposed site to Ohio EPA;

d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have acceptable environmental impact;

e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and

g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

3. Any site approvals issued by the Ohio EPA, pursuant to F.2 above, shall be valid for no longer than three years and are subject to renewal.

In order for CDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with CDO having jurisdiction over the new site. Upon receipt of the notice, CDO having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

4. Terms in section A, B, C, D, and E of this permit are federally enforceable.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	
F008 - Extech Screener Soil Plant (4 tons/hr)	OAC rule 3745-31-05(A)(3)	
		OAC rule 3745-17-11 (B)(5)(b)
		OAC rule 3745-17-07 (A)(1)
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08	OAC rule 3745-35-07(B) (Synthetic minor to avoid Title V for NOx emissions)
w/120 hp diesel engine(1 MmBtu /hr)	OAC rule 3745-31-05(A)(3)	

Applicable Emissions Limitations/Control Measures	
Particulate emissions (PE) shall not exceed 9 lbs/hr and 9tons/yr.	rules 3745-17-11(B)(5)(b), 3745-17-07(A), 3745-18-06(G), and 3745-31-05(D).
Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See sections A.2.b through A.2.d.	PE from exhaust shall not exceed 0.31 lb per MmBtu of actual heat input.
Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average.	Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
See section A.2.f	NOx emissions shall not exceed 3.7 tons/rolling, 12-month period.
See section A.2.f	CO emissions shall not exceed 0.8 ton/rolling, 12-month period.
NOx emissions shall not exceed 3.7 lbs/hr.	SO2 emissions shall not exceed 0.3 ton/rolling, 12-month period.
CO emissions shall not exceed 0.8 lb/hr.	OC emissions shall not exceed 0.3 ton/rolling, 12-month period.
SO2 emissions shall not exceed 0.3 lb/hr.	PE shall not exceed 0.3 ton/rolling, 12-month period.
OC emissions shall not exceed 0.3 lb/hr.	
PE shall not exceed 0.3 lb/hr.	
See section A.2.e, B.1, and B.2 below.	
Compliance with this rule also includes compliance with OAC	

2. Additional Terms and Conditions

2.a The material handling operation that is covered by this permit and subject to the above-mentioned requirements are listed below:

Extech screener soil plant

2.b The permittee shall employ best available control measures for the above-identified material handling operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure to ensure compliance:

material handling operation	control measure
Extech screener soil plant	moisture applied and inherent

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measure is unnecessary.

2.d Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

2.e The hourly combustion emissions of NOx, SO2, CO, OC and PE reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

2.f This rule applies to all fugitive emissions from the source in a Appendix A area; however, the requirements of OAC rule 3745-31-05(A)(3) are equal to or more stringent. Therefore, the requirements of this rule shall be satisfied.

Emissions Unit ID: **F008**

B. Operational Restrictions

1. The maximum annual operating hours shall not exceed 2,000 hours per rolling, 12- month period.

   After the first 12 calender months of operation following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The engine shall be operated with diesel fuel with a sulfur content less than 0.5% by weight.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections to determine if visible particulate emissions are being emitted from the operations listed below in accordance with the following minimum frequencies:

operation	minimum inspection frequency
Extech screener soil plant	Daily, when operating

   The above-mentioned inspections shall be performed during representative, normal operating conditions.

2. The permittee may, upon receipt of written approval from the Ohio EPA, Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the "no visible emissions" requirement.

3. The permittee shall note the following in an operations log for each operation (soil grinder) at the minimum inspection frequency specified above whenever the emissions unit is in operation:

   a. the date and time of each observation;

   b. the presence or absence of any visible emissions;

   c. whether it was determined by the permittee that it was necessary to implement the control measures;

   d. the dates and times the control measures were implemented; and

   e. the name of the person reporting each observation.

4. The permittee shall maintain a record of the sulfur content of each shipment of diesel fuel received for burning in this emissions unit.

5. The permittee shall maintain monthly records of the following information:

   a. the operating hours for each month; and

   b. the rolling, 12-month summation of the operating hours.

   Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours during each calendar month.

6. The operations log shall be maintained on site.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:

   a. each day when visible emissions were observed, and at which location;

   b. each day during which an inspection was not performed by the required frequency; and

   c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation.

4. The permittee shall submit a deviation report for each day when a fuel other than 0.5% sulfur diesel fuel was burned in this emissions unit. This report shall be submitted within 30 days after the deviation occurred.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be

determined in accordance with the following methods:

a. Emissions Limitations-
PE shall not exceed 9 lbs/hr and 9 tons/yr.

Applicable Compliance Method-
Compliance shall be based on a RACM emission factor in Table 2.1,3-2 for the conveying and transfer of sand at 0.3 lb/ton 60,000 tons/yr * 0.3 lb/ton = 18,000 lbs PM/yr * ton/2,000 lbs = 9 tons PM/yr * 2,000 lb/ton * 1yr/2,000 hr = 9 lbs PM/hr

b. Emission Limitation-
Visible PE from any fugitive dust source shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method-
If required, compliance shall be determined through visible emission observations performed in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996.

c. Emission Limitation-
Combustion emissions shall not exceed the following: NOx emissions shall not exceed 4.1 lbs/hr per hour and 4.1 tons/yr; CO emissions shall not exceed 0.9 lb/hr and 0.9 ton/yr; SO2 emissions shall not exceed 0.28 lb/hr and 0.28 ton/yr; OC emissions shall not exceed 0.33 lb/hr and 0.33 ton/yr and PE shall not exceed 0.3 lb/hr and 0.3 ton/yr.

Applicable Compliance Method-
Compliance with the emission limitations identified above for the diesel engines shall be determined by using the emission factors from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines" and the rated capacity of the diesel engines (135). The hourly emission rates are multiplied by 2,000 hours and converted to tons to obtain the annual emissions.

<u>AP-42 Table 3.3-1</u>
0.031 lb NOx/hp-hr * 135 hp = 4.1 lbs NOx/hr * 2,000 hrs/yr * 1 ton/2000 lbs = 4.1 tons NOx/yr
0.00668 lb CO/hp-hr * 135 hp = 0.9 lb CO/hr * 2,000 hrs/yr * 1 ton/2000 lbs = 0.9 ton CO/yr
0.00205 lb SO2/hp-hr * 135 hp = 0.3 lb SO2hr * 2,000 hrs/yr * 1 ton/2000 lbs = 0.3 ton SO2/yr
0.00247 lb OC/hp-hr * 135 hp = 0.3 lb OC/hr * 2,000 hrs/yr * 1 ton/2000 lbs = 0.3 ton

OC/yr
0.0022 lb PE/hp-hr * 135 hp = 0.3 lb PE/hr * 2,000 hr/yr * 1 ton/2000 lb = 0.3 ton PE/y**r**

d. Emission Limitation-
Visible PE from the diesel engine exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method-
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

e. Emission Limitation-
PE emissions from a small bore diesel engine exhaust stack shall not exceed 0.310 lb per mmBtu of actual heat input with diesel engine rated at 1 mmBtu/hr.

Applicable Compliance Method-
Compliance with the emissions limitation for the diesel engine identified above shall be determined by using the emission factor for particulates from AP-42, 5th Edition (October 1996), Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines." This emission factor is 0.31 lb particulate/mmBtu (fuel input) for diesel fuel. (Note: this emission factor is equivalent to the emission factor of 0.0022 lb PM/hp-hr.)

F. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

   a. the portable emissions unit is equipped with the best available technology for such portable emissions unit;

   b. the portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO), or registration;

   c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the CDO having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and

   d. in the CDO judgement, the proposed site is acceptable under the rule 3745-15-07 of the

Administrative Code.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

   a. the portable emissions unit permittee possesses an PTI, PTO or registration;

   b. the portable emissions unit is equipped with best available technology;

   c. the portable emission unit owner has identified the proposed site to Ohio EPA;

   d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

   e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

   f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and

   g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

3. Any site approvals issued by the Ohio EPA, pursuant to F.2 above, shall be valid for no longer than three years and are subject to renewal.

   In order for CDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with CDO having jurisdiction over the new site. Upon receipt of the notice, CDO having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

   Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

5. Terms in section A, B, C, D, and E of this permit are federally enforceable.